



Homework 6 Transaction processing

1. a. State a method of data capture that would be suitable for each of the following applications:

[3]

Application	Data capture method
Multiple choice exam answers	
Number plates recorded by speed camera	
Bank clerk entering cheque details	

- (b) (i) What is meant by Electronic Data Interchange (EDI)?

[2]

- (i) Name an application for which this would be a suitable method of data exchange.

[1]

2. (a) Describe briefly a potential problem that could arise in a multi-user database.

[2]

- (b) What does ACID stand for in the context of databases?

[2]



- (c) Explain briefly what ACID is, and its purpose. [3]
3. Explain what is meant by **redundancy** in the context of computer systems and why it is essential for some organisations. [2]
4. Name and briefly describe a serialisation technique which ensures that transactions do not overlap in time and ensures that updates are not lost. [3]

[Total 18 Marks]